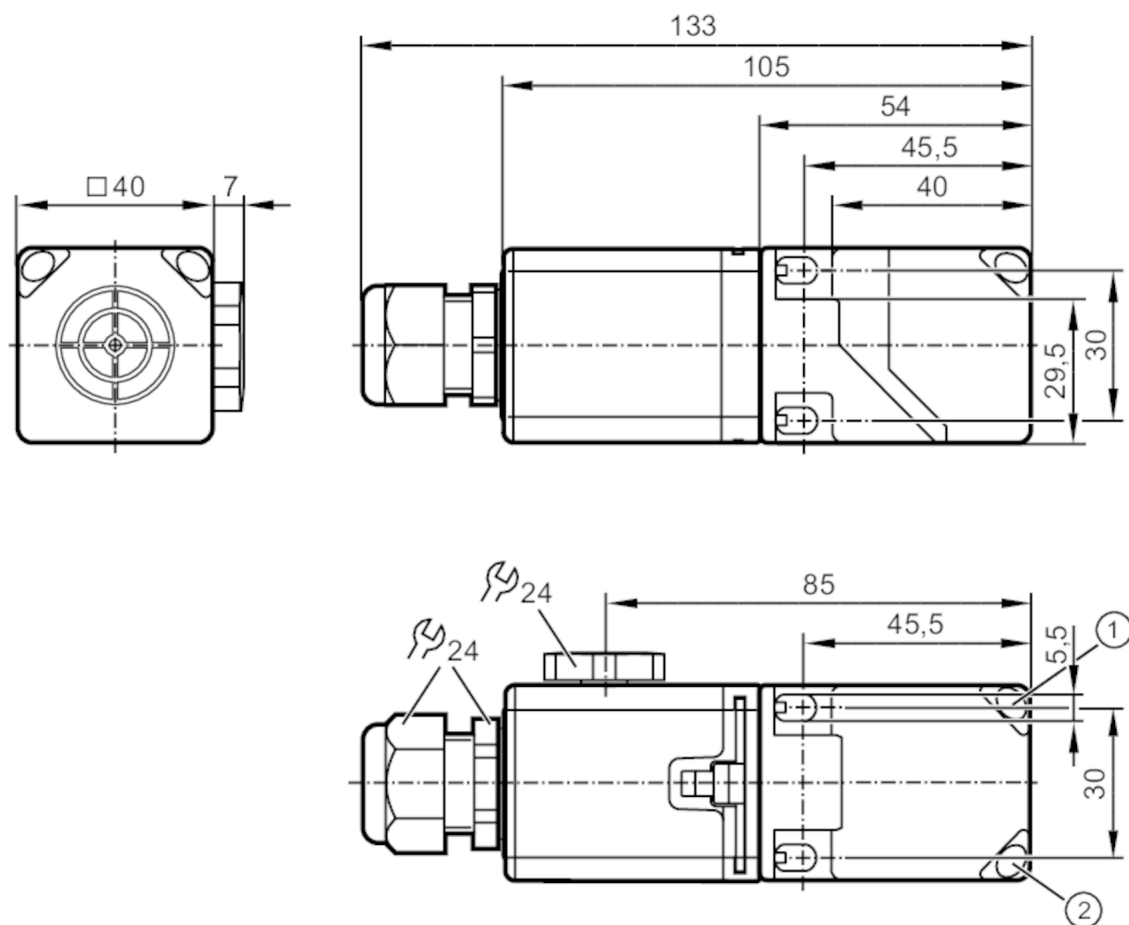


Inductive sensor

IME2040-FRKA



- 1 LED yellow
2 LED green



Product characteristics

Output function		normally open / normally closed; (programmable)
Sensing range	[mm]	40
Housing		rectangular
Dimensions	[mm]	40 x 40 x 105

Electrical data

Frequency AC	[Hz]	45...65
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		yes

Outputs

Output function		normally open / normally closed; (programmable)
Max. voltage drop switching output DC	[V]	5.5
Max. voltage drop switching output AC	[V]	5.5
Minimum load current	[mA]	5



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Max. leakage current	[mA]	2.5 (250 V AC) / 1.3 (130 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC	[mA]	100
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	$\hat{I}$: 0,6 A (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	10
Switching frequency DC	[Hz]	10
Notes on switching frequency	[Hz]	only for resistive loads; 2 Hz for utilisation category AC-140
Type of short-circuit protection		pulsed
Short-circuit proof		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	40
Real sensing range Sr	[mm]	$40 \pm 10 \%$
Operating distance	[mm]	0...32.4

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 65; IP 67

Tests / approvals

EMC	EN 60947-5-2	2008-08
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Mechanical data

Weight	[g]	237.8
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 40 x 105
Materials		PC; PA; stainless steel

Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	1x LED, green

Remarks

Pack quantity	1 pcs.
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Electrical connection

screw terminals: 0.34...2.5 mm²; Cable sheath: Ø 5...9 mm

Connection

